



IN THE CLAIMS:

Please amend the claims as follows.

1. (Currently Amended) A method of controlling communication resources ~~in a transmission from a first network element to a second network element, where the communication resources are allocated by a controller,~~ the method comprising:

monitoring an indication of future need of communication resources in said first network element;

sending the indication from the first network element to the controller, wherein the indication is a coded value of a length of ~~the~~ a data queue;

controlling the communication resources between the first network element and the second network element based on this indication; and

controlling communications resources in a transmission from the first network element to the second network element, wherein the communication resources are allocated by a controller.

2. (Original) The method according to claim 1, wherein the first network element is connected to the controller by way of the second network element.

3. (Currently Amended) The method according to claim 1, wherein in the sending, the indication includes information about a transmit buffer of the first network element.

4. (Currently Amended) The method according to claim 1, wherein in the sending, the indication includes information on the additional resources needed for said first network element.

5. (Currently Amended) A method of controlling communication resources ~~in a transmission from a first network element to a second network element across a network, where the communication resources are allocated by a controller in the network, the~~ method comprising:

monitoring an indication of future need of communication resources in ~~said a~~ first network element;

sending the indication from the first network element to ~~the~~ a controller; and

controlling the communication resources between the first network element and ~~the~~ a second network element based on this indication, and

controlling communication resources in a transmission from the first network element to the second network element across a network, wherein the communication resources are allocated by a controller in the network,

wherein the controller is separate and independent from the first network element,

wherein the indication includes information about a transmit buffer of the first network element, wherein the indication includes coded values corresponding to predefined resources.

6. (Currently Amended) The method according to claim 4, wherein in the monitoring, the indication includes information about the transmit buffer of the first network element.

7. (Currently Amended) ~~A~~ The method according to claim 1, wherein in the monitoring, the first network element is a mobile station and the second network element is a base station of a wireless communication network.

8. (Currently Amended) A system for controlling communication resources in a network, the system comprising:

a plurality of first stations;

a second station connected to the plurality of first stations through a plurality of communication links;

a controller ~~for controlling~~ configured to control the allocation of the communication resources among the links, the controller being separate and independent from the first stations,

said allocation being performed in accordance with information transmitted from the first stations which indicates a need for communication resources based upon the lengths of data queues in the first stations, wherein the information is a coded value of the lengths of the data queues.

9. (Previously Presented) The system according to claim 8, wherein said controller is part of a base station.

10. (Original) The system according to claim 8, wherein said first stations are mobile stations in a wireless network.

11. (Currently Amended) The system according to claim 8, wherein each of said plurality of first stations includes:

- a data generator;
- a data queue;
- an encoder ~~for generating~~ configured to generate a code representative of the length of the data queue;
- a transmitter ~~for transmitting~~ configured to transmit said data with said code included therein as a field.

12. (Currently Amended) The system according to claim 8, wherein said base station includes a receiver ~~for~~ configured to receive ~~ing~~ a transmission and producing data;

- a decoder ~~for decoding~~ configured to decode a field of said data and producing an indication of the data queue in an associated first station;

wherein said controller receives said information from said decoder and allocates communication resources in accordance therewith.

13. (Original) The system according to claim 8, wherein said indication is provided for each data block transmitted.

14. (Currently Amended) A base station comprising:

a receiver;

a decoder ~~for decoding~~ configured to decode a code representative of a length of a data queue in at least one mobile station; and

a controller ~~for controlling~~ configured to control allocation of communication resources,

wherein said decoder provides queue length information for the at least one mobile station to the controller.

15. (Currently Amended) A mobile station comprising:

a data generator;

a data queue;

an encoder ~~for generating~~ configured to encode a code representative of a length of the data queue; and

a transmitter ~~for transmitting~~ configured to transmit data with said code included therein as a field.